

**Memo****Execution of runs outside GUI - exeparfile****1 Description**

This tool (`exeparfile.exe`) allows running MACRO simulations from a MACRO parameter file outside of the various graphical user interfaces available. The parameter file may be created by either MACROinFOCUS or MACRO 5.2.

**2 Input**

The tool takes a MACRO parameter file name as input. The MACRO parameter file should be placed in the program directory.

**3 Required files**

The following files should be present in the program directory:

macro5.dll  
MACRO52model.exe

In addition to these files, the driving data files specified in the parameter file needs to be accessible.

**4 Output**

The program creates a MACRO input file (`indump.tmp`) and launches a simulation (`MACRO52model.exe`), which in turn creates a MACRO output file (`.bin` file). If an error occurs, a text file is created in the program directory.

**5 Syntax**

`exeparfile.exe` `Filename`

`Filename` Parameter file name, including the file extension

**6 Test procedure**

1. Create a scenario in MACROinFOCUS
2. Export scenario simulation to parameter file
3. Run the scenario simulation in MACROinFOCUS
4. Run the MACRO parameter file using this tool
5. Look at the results in MACROinFOCUS by selecting the different log files in the results screen. The results should be identical

**6.1 Test results**

Tests have been performed for both surface and groundwater scenarios.

**6.1.1 Groundwater**

The following groundwater scenario was run both in MACROinFOCUS 5.5.3 (submitted) and by using the `exeparfile` program:

Compound : GW-A  
Scenario : Chateaudun  
Crop : Cereals, winter  
Number of applications : 1  
Application 1 : 1000 g/ha of GW-A on day 299

Some of the results are presented below:

	MACROinFOCUS	Exeparfile
80th	3.54	3.54
Periods	11,9	11,9
Percolation first period	15.44	15.44
Dissipation first period	18.93	18.93

#### 6.1.2 Surface water

The following surface water scenario was run both in MACROinFOCUS and by using the exeparfile program:

Compound : 1\_sw  
Scenario : D1  
Crop : Cereals, spring  
Method of application : Ground spray  
Number of applications : 1  
Application 1 : 1000 g/ha of 1\_sw on day 115

Some of the results are presented below:

	MACROinFOCUS	Exeparfile
Max conc	1860	1860
Lost to drains	3.44	3.44
Dissipated	93.62	93.62
Crop uptake	1.13	1.13